

(C2-11.1a) Name:

Homework Questions 1 – Definite Integration

Find the definite integral.

1. $\int_2^4 6x^2 - 4x + 3 \, dx$

94

2. $\int_0^3 5x^2 + 3x - 9 \, dx$

31.5

3. $\int_0^4 (x - 3)(x - 4) \, dx$

$31\frac{1}{3}$

4. $\int_2^6 (x - 5)^2 \, dx$

$9\frac{1}{3}$

5. $\int_1^5 (x + 8)(x - 3) dx$

$5\frac{1}{3}$

6. $\int_{-2}^0 \frac{x^3 + 2x^2}{x} dx$

$-1\frac{1}{3}$

7. $\int_5^8 x^2 + 4 dx$

141

8. $\int_{-3}^3 x^3 + 4x^2 - x + 6 dx$

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